## PATENT COOPERATION TREAT PCT

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## INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference					
501687/WTM	FOR FURTHER ACTION				
International Application No.	International Filing Da (day/month/year)	ite	Priority Date (day/month/year)		
PCT/AU2003/000999	7 August 2003		7 August 2002		
International Patent Classification (IPC) or i	national classification ar	nd IPC	2002		
Int. Cl. 7 G01R 33/022, 33/00, 33/035					
Applicant					
COMMONWEALTH SCIENTIF	IC <sub>,</sub> AND INDUSTRIA	AL RESEARCH OI	RGANISATION et al		
3			onal Preliminary Examining Authority and		
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amended and are the basis for this 70.16 and Section 607 of the Adm	This report is also accompanied by ANNEXES, i.e., sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).				
These annexes consist of a total of	sheet(s).				
3. This report contains indications relating t	to the following items:				
I X Basis of the report			·		
II Priority			·		
III Non-establishment of opin					
IV Lack of unity of invention	III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability  IV Lack of unity of invention				
V X Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement					
VI Certain documents cited	apporting such stateme	iit	·		
VII Certain defects in the international application					
VIII Certain observations on the international application					
Date of submission of the demand					
March 2004		Date of completion of the report 13 December 2004			
Name and mailing address of the IPEA/AU		thorized Officer			
AUSTRALIAN PATENT OFFICE O BOX 200, WODEN ACT 2606, AUSTRALIA			·		
-mail address: pct@ipaustralia.gov.au acsimile No. (02) 6285 3929		Mari Day			
	· I	ani Ramachandra ephone No. (02) 628			
		-Phone 140. (02) 020	03 4433		

## INTERNATIONAL PREZIMINARY EXAMINATION REPORT

International application No.

PCT/AU2003/000999

1. With regard to the elements of the international applications.*    The description, pages   as originally filed, pages   filed with the demand, pages   received on with the letter of	I.	1	Basis of the repo	rt			
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International application No.

PCT/AU2003/000999

V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1.	Statement		
	Novelty (N)	Claims 3-19, 22-72	YES
		Claims 1, 2, 20, 21	NO
	Inventive step (IS)	Claims 3-18 22-37 40 54 56 50	YES
		Claims 1, 2, 19-21, 38, 39, 55	NO ·
	Industrial applicability (IA)	Claims 1-72	YES
		Claims	NO
2	Citations and a 1 at an a		

2. Citations and explanations (Rule 70.7)

## **NOVELTY & INVENTIVE STEP Claims 1-72**

D1 - US 5357802 A (HOFMEYER et al) 25 October 1994

D2 - GB 2258314 A (DORNIER GmbH) 3 December 1993

D3 - US 5469056 A (ESCHNER et al) 21 November 1995

The independent claims are method claims 1 and 39, and device claims 20 and 55. The invention deals with controllably altering the position of gradiometers (field vector sensors) with respect to the magnetic field. In claims 1 and 20, there are at least two gradiometers connected in a differencing arrangement and in claims 39 and 55 there are at least three gradiometers and the axis of each of them is not parallel to the axes of the other two.

In Fig. 3A of D1, we see the gradiometer assembly comprising several accelerometers pointing in different directions, and on being displaced, the signals outputted by each of them differ. The differencing arrangement of claims 1 and 20 are anticipated here and lack novelty. Also as seen from Fig. 1 of the citation, accelerometers 36 and 36A are axially aligned along the X axis. The subject matter of appended claims 2 and 21 are also thus not novel, and lacking an inventive step.

Three dimensional gradiometer structures are depicted in D2 and D3 wherein the three or more gradiometers lie in non-parallel, non-orthogonal planes. It would be well within the expertise of a skilled addressee to combine the teachings of D2 or D3, with that of D1. This would render claims 39 and 55 to lack an inventive step. Also appended claims 19 and 38 in their appendancy to claims 1 and 20 respectively, recite the same features as claims 39 and 55, so they lack an inventive step too.